

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Choi et al.

App. No.: 09/598,317 GPAU: 2834

Filing Date: 10/27/2000 Examiner: Thomas M. Dougherty

Dkt. No.: PA09-06V02 Conf. No.: 6298

For: HIGH PRECISION ORIENTATION ALIGNMENT AND GAP CONTROL
STAGES FOR IMPRINT LITHOGRAPHY PROCESS

INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The following information is submitted in compliance with Applicants' duty of disclosure and pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98. The undersigned brings the patents, publications, applications or other information identified in the attached:

Form(s) PTO/SB/08A and/or PTO/SB/08B or PTO/1449
 Other:

to the Examiner's attention in the above-identified application. It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

FEES DUE

This Information Disclosure Statement is being filed:

within three months of the filing date of a national application or within three months of entry of the national stage as set forth in § 1.491 in an international application. Therefore, no fee is required.

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- before the mailing date of a first Office action on the merits or before the mailing date of a first Office action after the filing of a request for continued examination under § 1.114. Therefore, no fee is believed required.
- during the period specified in § 1.97(c). Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application not more than three months prior to the filing of this Information Disclosure Statement.
- during the period specified in § 1.97(c). Accordingly, the fee set forth in § 1.17(p) is required and provided as shown on the attached Fee Transmittal.
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CERTIFICATE OF TRANSMISSION
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as either First Class Mail or Express Mail, in an envelope addressed to the Commissioner for Patents.

Signed: Katrina Prati
Typed Name: Katrina Prati
Date: 10-8-04

Respectfully Submitted,



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Sheet

1

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6

Complete if Known

Application Number	09/698,317
Filing Date	10/27/2000
First Named Inventor	Choi et al.
Group Art Unit	2834
Examiner Name	Dougherty, Thomas M.
Attorney Docket Number	PA09-06V02

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
E1	4,070,116			Frosch et al.	01-24-1978	
E2	4,600,309			Fay	07-15-1986	
E3	4,848,911			Uchida et al.	07-18-1989	
E4	5,074,667			Miyatake	12-24-1991	
E5	5,148,036			Matsugu et al.	09-15-1992	
E6	5,148,037			Suda et al.	09-15-1992	
E7	5,151,754			Ishibashi et al.	09-29-1992	
E8	5,179,863			Uchida et al.	01-19-1993	
E9	5,376,810			Hoenk et al.	12-27-1994	
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E11	5,670,415			Rust	09-23-1997	
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E13	5,855,686			Rust	01-05-1999	
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E16	6,150,580			Eastman et al.	11-21-2000	
E17	6,326,527	B1		Putvinski et al.	12-04-2001	
E18	2002/0132482	A1		Chou	09-19-2002	
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E21	6,534,418	B1		Plat et al.	03-18-2003	
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E26	5,468,542			Crouch	11-21-1995	
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E30	5,212,147			Sheats	05-18-1993	
E31	5,458,520			DeMercurio et al.	10-17-1995	
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E33	5,439,768			Day et al.	08-08-1995	
E34	5,431,777			Austin et al.	07-11-1995	

Examiner
SignatureDate
Considered

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OCT 13 2004 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)					
Sheet	2	of	6	Application Number	09/698,317
				Filing Date	10/27/2000
				First Named Inventor	Choi et al.
				Group Art Unit	2834
				Examiner Name	Dougherty, Thomas M.
				Attorney Docket Number	PA09-06V02

U.S. PATENT DOCUMENTS					
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		Number	Kind Code ² (if known)		
E35	5,422,295			Choi et al.	06-06-1995
E36	5,421,981			Leader et al.	06-06-1995
E37	5,417,802			Obeng	05-23-1995
E38	5,380,474			Rye et al.	01-10-1995
E39	5,374,454			Bickford et al.	12-20-1994
E40	5,330,881			Sidman et al.	07-19-1994
E41	5,328,810			Lowrey et al.	07-12-1994
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E43	5,244,818			Jokerst et al.	09-14-1993
E44	5,242,711			DeNatale et al.	09-07-1993
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E54	5,169,494			Hashimoto et al.	12-08-1992
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E66	6,677,252	B2		Marsh	01-13-2004
E67	6,703,190	B2		Elian et al.	03-09-2004
E68	6,730,256	B1		Bloomstein et al.	05-04-2004
Examiner Signature				Date Considered	

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 3 of 6

<p>Substitute for form 1449A/PTO</p> <p style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(use as many sheets as necessary)</p>				<p style="text-align: center;">Complete if Known</p> <table border="1"> <tr> <td>Application Number</td> <td>09/698,317</td> </tr> <tr> <td>Filing Date</td> <td>10/27/2000</td> </tr> <tr> <td>First Named Inventor</td> <td>Choi et al.</td> </tr> <tr> <td>Group Art Unit</td> <td>2834</td> </tr> <tr> <td>Examiner Name</td> <td>Dougherty, Thomas M.</td> </tr> <tr> <td>Attorney Docket Number</td> <td>PA09-06V02</td> </tr> </table>		Application Number	09/698,317	Filing Date	10/27/2000	First Named Inventor	Choi et al.	Group Art Unit	2834	Examiner Name	Dougherty, Thomas M.	Attorney Docket Number	PA09-06V02
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Sheet

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FOREIGN PATENT DOCUMENTS

Examiner Signature		Date Considered	
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Sheet

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Group Art Unit	2834
Examiner Name	Dougherty, Thomas M.
Attorney Docket Number	PA09-06V02

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (In CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	E76	Abstract of Japanese Patent 63-138730	
	E77	Abstract of Japanese Patent 55-88332	
	E78	Abstract of Japanese Patent 57-7931	
	E79	Abstract of Japanese Patent 02-92603.	
	E80	Translation of Japanese Patent 02-92603.	
	E81	Abstract of Japanese Patent 02-24848.	
	E82	Translation of Japanese Patent 02-24848.	
	E83	HEIDARI et al., "Nanolithography at the 6 in. Wafer Scale," Journal of Vacuum Science Technology, Nov/Dec 2000, pp. 3557-3560, vol. B, no. 18(6)Y	
	E84	NERAC.COM Retro Search, "Reduction of Dimension of Contact Holes", August 31, 2004	
	E85	NERAC.COM Retro Search, "Trim Etching of Features Formed on an Organic Layer", September 2, 2004	
	E86	NERAC.COM Retro Search, "Multi-Layer Resists", September 2, 2004	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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<p>Substitute for form 1449B/PTO 07.13.2003 PAPERS MAILED INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i></p>				<p><i>Complete if Known</i></p> <table border="1"> <tr> <td>Application Number</td> <td>09/698,317</td> </tr> <tr> <td>Filing Date</td> <td>10/27/2000</td> </tr> <tr> <td>First Named Inventor</td> <td>Choi et al.</td> </tr> <tr> <td>Group Art Unit</td> <td>2834</td> </tr> <tr> <td>Examiner Name</td> <td>Dougherty, Thomas M.</td> </tr> <tr> <td>Attorney Docket Number</td> <td>PA09-06V02</td> </tr> </table>		Application Number	09/698,317	Filing Date	10/27/2000	First Named Inventor	Choi et al.	Group Art Unit	2834	Examiner Name	Dougherty, Thomas M.	Attorney Docket Number	PA09-06V02
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Signature		Date Considered	
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Substitute for form 1449A/PTO		07/13/2004		Information Disclosure Statement (IDS) - A collection of information disclosure documents & a valid OMB control number	
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

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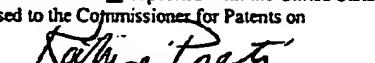
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865/2834/1st! gsf

TRANSMITTAL LETTER		Attorney Docket Number: PA09-06V02				
Application Number: 09/698,317	Filing Date: 10/27/2000	Examiner: Thomas M. Dougherty	Group Art Unit: 2834			
Invention: HIGH PRECISION ORIENTATION ALIGNMENT AND GAP CONTROL STAGES FOR IMPRINT LITHOGRAPHY PROCESS						
TO THE COMMISSIONER FOR PATENTS:						
Transmitted herewith are the following documents in the above-identified application. The fee has been calculated as shown below.						
<input type="checkbox"/> Amendment (page(s)), <input checked="" type="checkbox"/> Information Disclosure Statement (5 page(s)), including Transmittal (2 page(s)), Form PTO/SB/08A (3 page(s)), and <input checked="" type="checkbox"/> Copies of (3) cited references; <input checked="" type="checkbox"/> Information Disclosure Statement (9 page(s)), including Transmittal (2 page(s)), Form PTO/SB/08A (7 page(s)), and <input checked="" type="checkbox"/> Copies of (19) cited references; <input checked="" type="checkbox"/> Return Receipt Postcard						
CLAIMS AS AMENDED						
	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	NO. OF EXTRA CLAIMS PRESENT	RATE	ADDITIONAL FEE
TOTAL CLAIMS		MINUS			\$18.00	\$ n/a
INDEP. CLAIMS		MINUS			\$86.00	\$n/a
Information Disclosure Fee			2@\$180	\$ 360.00		
Petition for Extension of Time				\$		
TOTAL FEE				\$ 360.00		
<input type="checkbox"/> Applicant claims small entity status under 37 CFR 1.27 <input type="checkbox"/> A check in the amount of \$ is attached. <input checked="" type="checkbox"/> Charge \$360.00 to deposit account number 502650 and credit any overpayment or debit any underpayment to the same deposit account 502650. <input checked="" type="checkbox"/> No additional fee is required, but if any fees are incurred regarding this matter kindly charge deposit account number 502650.						
<u>10/8/04</u> date		 Kenneth C. Brooks Reg. No. 38393 Legal Department Molecular Imprints, Inc. P.O. Box 81536 Austin, Texas 78708-1536 Telephone: 512-339-7760, ext. 243 Facsimile: 512-491-8918				
CERTIFICATE OF TRANSMISSION/MAILING						
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to the Commissioner for Patents on						
<u>10-8-04</u>  Katrina Prati						